Smart design, easy connections

Quality radio modules for wireless data communications

SATEL-TR49 SnapOn

SATEL-TR49 SnapOn fits into a standard Mini PCIe bus. This makes it compatible with millions of equipment already in the market, and the integration is easy. If there is Mini PCIe bus, it can replace other technologies such as cellular and LoRa. Ideal for real-time IoT applications!

- Ultra-compact design
- Easy integration and deployment
- Possibility of power over USB (max 500 mW, more with extra input)
- Robust mounting and interfaces

Industrial Internet and IoT

Industrial Internet and IoT bring together machines, analytics and people. Industrial Internet is a mission-critical business platform, where smooth and interruption-free operations are essential. The requirements for technology used in Industrial Internet are significantly stricter than in a more consumer oriented Internet of Things (IoT). The solution is SATEL's reliable and secure technology.

SATELGO

Mission-Critical Connectivity

Read more: www.satel.com

SATEL is one of the world's leading experts and innovators of radio modems for wireless data communication. Our solutions are used in a wide range of industrial applications. We are known for our high quality, expertise, service and support.

You can contact us directly or get in touch with your local distributor.

Easy, compact and compatible

SATEL-TR49 SnapOn is a dual band and multimode transceiver for the licensed 410-475 MHz and license-free 902-928 MHz bands. It is compatible with SATEL products and also with other manufacturers´ radio protocols.

SATEL-TR49 SnapOn

RADIO TRANSCEIVER SPECIFICATIONS 902-928 MHZ

Data Rate	115.2 kbit/s
Output Power	10 mW ... 1 W
Modulation	2-GFSK
Occupied Bandwidth	230 kHz
Protocol Modes	Point to Multipoint, Point to Point
Spreading Method	Frequency Hopping
Hopping Patterns	15 per band, 105 total, user selectable
Hopping Channels	50-112, user selectable
Hopping Bands	7, user selectable
Frequency Zones	16 Zones, 7 Channels per Zone
Receiver Sensitivity	-109 dBm for 10-4 BER
Data speed of Serial Interface	9600-115200 bps

RADIO TRANSCEIVER SPECIFICATIONS 410-475 MHZ

Data Rate	9600 bits/s (12.5 kHz channel) 19200 bits/s (25 kHz channel)
Output Power	10 mW ... 1 W
Modulation	4-GFSK
Channel Widths	12.5 and 25 kHz
Receiver Sensitivity	-120 dBm for 1% BER (12.5 kHz)
Data speed of Serial Interface	9600-115200 bps

GENERAL SPECIFICATIONS

Size	51 x 30 x 4.75 mm
Weight	10 g
Operating Temperature	-40 ... +70 °C
Operating Voltage	3.3 ± 9% VDC
Antenna Connector	U.FL
Power Consumption RX	400 mW
Power Consumption TX	3.4 W (at 1 W RF power)
Vibration Tolerance	25 g, up to 2 kHz sinusoidal (over 90 % packet success rate)
Form Factor	PCIe MiniCard full size
Input I/F	USB 2.0
Complies with requirements in	EU USA Canada Australia New Zealand

SATELGO
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